## WHAT IS CLAIMED IS:

- A contents transmission/reception system.
   comprising:
- a transmission device; and

at least one reception device that receives contents from the transmission device;

wherein the transmission device has:

an authentication and key exchange processing

unit configured to carry out an authentication and key
exchange processing with a reception device that made a
contents transmission request;

a device identification information
transmission request unit configured to transmit a

15 device identification information request to the
reception device, such that the reception device
transmits a device identification information;

a device identification information
registration unit configured to register the device
20 identification information transmitted from the
reception device;

a device identification information search unit configured to search out the device identification information corresponding to an IP (Internet Protocol) address of the reception device, from a network to which the reception device is connected;

a comparison judgement unit configured to judge whether the device identification information searched out by the device identification information search unit and the device identification information registered by the device identification information registration unit coincide or not; and

a distribution condition determination unit
configured to change a distribution condition for
contents to be transmitted to the reception device that
10 made the contents transmission request, according to a
judgement result obtained by the comparison judgement
unit; and

the reception device has:

a contents transmission request unit configured

to make the contents transmission request to the

transmission device; and

a device identification information

transmission unit configured to transmit the device
identification information of the reception device to

the transmission device, upon receiving the device
identification information request from the
transmission device.

The contents transmission/reception system of
 claim 1, wherein the device identification information
 a MAC address of a network interface, and the device

identification information search unit transmits a MAC address search request by using an IP address of the reception device as a key to a metwork segment to which the reception device is connected, and receives a MAC address search result.

- The contents transmission/reception system of claim 2, wherein the device identification information search unit searches out the MAC address corresponding to the IP address of the reception device by an ARP (Address Resolution Protocol).
- 4. The contents transmission/reception system of claim 2, wherein the device identification information transmission unit transmits the MAC address to the transmission device by attaching an electronic signature.
- 5. The contents transmission/reception system of claim 4, further comprising a verification unit configured to verify whether the MAC address is altered or not, when the electronic signature is attached to the MAC address;

wherein the device identification information
25 registration unit registers the MAC address only when
the verification unit judges that the MAC address is

not altered.

- 6. The contents transmission/reception system of claim 1, wherein the authentication and key exchange processing unit carries out the authentication and key exchange processing according to a DTCP (Digital Transmission Contents Protection).
- 7. The contents transmission/reception system of claim 1, wherein the reception device also has:

a reception device side authentication and key exchange processing unit configured to carry out the authentication and key exchange processing with the transmission device:

a network interface unit configured to receive encrypted contents from the transmission device; and

an encryption processing unit configured to
decrypt the encrypted contents received by the network
interface unit, by using a key exchanged by the
reception device side authentication and key exchange
processing unit.

8. A contents transmission device for transmitting contents to at least one reception device, the contents transmission device comprising:

an authentication and key exchange processing unit

configured to carry out an authentication and key exchange processing with a reception device that made a contents transmission request;

a device identification information transmission request unit configured to transmit a device identification information request to the reception device, such that the reception device transmits a device identification information;

a device identification information registration
unit configured to register the device identification
information transmitted from the reception device;

a device identification information search unit configured to search out the device identification information corresponding to an IP (Internet Protocol)

15 address of the reception device, from a network to which the reception device is connected;

a comparison judgement unit configured to judge
whether the device identification information searched
out by the device identification information search
unit and the device identification information
registered by the device identification information
registration unit coincide or not; and

a distribution condition determination unit
configured to change a distribution condition for
25 contents to be transmitted to the reception device that
made the contents transmission request, according to a

judgement result obtained by the comparison judgement

- 9. A contents transmission/reception system,
- 5 comprising:
  - a transmission device; and
  - at least one reception device that receives contents from the transmission device;

wherein a reception device has:

- a contents transmission request unit configured to make a contents transmission request to the transmission device;
- a first authentication and key exchange

  processing unit configured to carry out an

  15 authentication and key exchange processing with the

  transmission device to which the contents transmission
  request is made;
- a device identification information

  transmission request unit configured to transmit a

  device identification information request to the

  transmission device, such that the transmission device

  transmits a device identification information:
- a device identification information registration unit configured to register the device identification information transmitted from the transmission device:

a device identification information search unit configured to search out the device identification information corresponding to an IP (Internet Protocol) address of the transmission device, from a network to which the transmission device is connected;

a comparison judgement unit configured to judge
whether the device identification information searched
out by the device identification information search
unit and the device identification information
registered by the device identification information
registration unit coincide or not; and

a reception condition determination unit
configured to determine a reception condition for
contents to be transmitted from the transmission device
to which the contents transmission request is made,
according to a judgement result obtained by the
comparison judgement unit; and

the transmission device has:

device;

transmission unit configured to transmit the device identification information of the transmission device to the reception device, upon receiving the device identification information request from the reception

a device identification information.

a second authentication and key exchange processing unit configured to carry out an

authentication and key exchange processing with the reception device that made the contents transmission request; and

a contents transmission control unit configured
to carry out contents transmission control according to
the reception condition determined by the reception
condition determination unit.

10. A contents reception device for receiving contents

10 from a transmission device, the contents reception

device comprising:

a contents transmission request unit configured to make a contents transmission request to the transmission device;

an authentication and key exchange processing unit configured to carry out an authentication and key exchange processing with the transmission device to which the contents transmission request is made;

a device identification information transmission
request unit configured to transmit a device
identification information request to the transmission
device, such that the transmission device transmits a
device identification information;

a device identification information registration
25 unit configured to register the device identification
information transmitted from the transmission device;

a device identification information search unit configured to search out the device identification information corresponding to an IP (Internet Protocol) address of the transmission device, from a network to which the transmission device is connected;

a comparison judgement unit configured to judge
whether the device identification information searched
out by the device identification information search
unit and the device identification information
registered by the device identification information
registration unit coincide or not; and

a reception condition determination unit
configured to determine a reception condition for
contents to be transmitted from the transmission device
to which the contents transmission request is made,
according to a judgement result obtained by the
comparison judgement unit.

11. A contents transmission/reception system.20 comprising:

a transmission device; and

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at least one reception device that receives contents from the transmission device;

wherein the transmission device has:

a device identification information transmission request unit configured to transmit a

device identification information request to a reception device that made a contents transmission request, such that the reception device transmits a device identification information;

a device identification information registration unit configured to register the device identification information transmitted from the reception device;

an advance notice unit configured to make a

10 device identification information search advance
notice, to the reception device;

a device identification information search unit configured to search out the device identification information corresponding to an IP (Internet Protocol)

15 address of the reception device, from a network to which the reception device is connected;

a comparison judgement unit configured to judge whether the device identification information searched out by the device identification information search unit and the device identification information registered by the device identification information registration unit coincide or not:

a request response reception judgement unit configured to judge whether a response to the device identification information search advance notice is received or not; and

a distribution condition determination unit configured to determine a distribution condition for contents to be transmitted to the reception device that made the contents transmission request, according to judgement results obtained by the comparison judgement unit and the request response reception judgement unit; and

the reception device has:

- a device information transmission unit

  configured to transmit the device identification information of the reception device and a device identification information search advance notice response to the transmission device, upon receiving the device identification information request from the transmission device.
  - 12. The contents transmission/reception system of claim 11, wherein the reception device also has:
- a device identification information search

  20 judgement unit configured to judge whether the device
  identification information search request from the
  transmission device is received or not; and
- a contents reception control unit configured to prohibit reception of contents from the transmission device when the device identification information search judgement unit judges that the device

identification information search request is not received.

13. A contents transmission device for transmitting
5 contents to at least one reception device, the contents
transmission device comprising:

a device identification information transmission request unit configured to transmit a device identification information request to a reception device that made a contents transmission request, such that the reception device transmits a device identification information:

a device identification information registration unit configured to register the device identification information transmitted from the reception device;

an advance notice unit configured to make a device identification information search advance notice, to the reception device;

a device identification information search unit
configured to search out the device identification
information corresponding to an IP (Internet Protocol)
address of the reception device, from a network to
which the reception device is connected;

a comparison judgement unit configured to judge
whether the device identification information searched
out by the device identification information search

unit and the device identification information registered by the device identification information registration unit coincide or not;

a request response reception judgement unit configured to judge whether a response to the device identification information search advance notice is received or not; and

a distribution condition determination unit configured to determine a distribution condition for contents to be transmitted to the reception device that made the contents transmission request, according to judgement results obtained by the comparison judgement unit and the request response reception judgement unit.

15 14. A contents transmission/reception system, comprising:

a transmission device; and

at least one reception device that receives contents from the transmission device;

20 wherein the transmission device has:

a device identification information search
judgement unit configured to judge whether a device
identification information search request from a
reception device is received or not; and

a contents transmission control unit configured to prohibit transmission of contents to the reception

device when the device identification information search judgement unit judges that the device identification information search request is not received; and

the reception device has:

a contents transmission request unit configured to make a contents transmission request to the transmission device;

an authentication and key exchange processing

unit configured to carry out an authentication and key
exchange processing with the transmission device to
which the contents transmission request is made:

a device identification information

transmission request unit configured to transmit the

device identification information request to the

transmission device, such that the transmission device

transmits a device identification information;

a device identification information registration unit configured to register the device identification information transmitted from the reception device:

an advance notice unit configured to make a device identification information search advance notice, to the transmission device;

a device identification information search unit configured to search out the device identification

information corresponding to an IP (Internet Protocol) address of the transmission device, from a network to which the transmission device is connected;

- a comparison judgement unit configured to judge
  whether the device identification information searched
  out by the device identification information search
  unit and the device identification information
  registered by the device identification information
  registration unit coincide or not; and
- a reception condition determination unit configured to determine a reception condition for contents to be transmitted from the transmission device to which the contents transmission request is made, according to a judgement result obtained by the comparison judgement unit.
  - 15. A contents reception device for receiving contents from a transmission device, the contents reception device comprising:
- a contents transmission request unit configured to make a contents transmission request to the transmission device;

an authentication and key exchange processing unit configured to carry out an authentication and key

25 exchange processing with the transmission device to which the contents transmission request is made;

a device identification information transmission request unit configured to transmit a device identification information request to the transmission device, such that the transmission device transmits a device identification information;

a device identification information registration unit configured to register the device identification information transmitted from the reception device;

an advance notice unit configured to make a device

10 identification information search advance notice, to
the transmission device;

a device identification information search unit configured to search out the device identification information corresponding to an IP (Internet Protocol) address of the transmission device, from a network to which the transmission device is connected;

a comparison judgement unit configured to judge
whether the device identification information searched
out by the device identification information search
20 unit and the device identification information,
registered by the device identification information
registration unit coincide or not; and

a reception condition determination unit configured to determine a reception condition for contents to be transmitted from the transmission device to which the contents transmission request is made,

according to a judgement result obtained by the comparison judgement unit.